

【Document Name】 ABSTRACT

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【PROBLEMS】 Improving strength and durability of retainer

【Means for solving】

The pocket 4a of the retainer 4 comprises a pair of axial walls 4a1 opposed in the axial direction of the retainer 4, a pair of circumferential walls 4a2 opposed in the circumferential direction, and corner round sections 4a3 connecting the axial wall 4a1 and the circumferential wall 4a2. The ratio (R/d) of the radius of curvature R of the corner round section 4a3 to the diameter d of the torque transmission ball 3 is set in a range of $0.45 \leq R/d \leq 0.62$. Also, the circumferential wall 4a2 and the corner round sections 4a3 are drawn in a single arc with the radius of curvature R. Furthermore, as to the axial walls 4a1, grinding, cutting by quenched steel, or the like is carried out after the heat treatment (carburizing and quenching) of the retainer 4 in order to reduce variations in a processing margin.

【Selected Drawing】 Fig. 1